146.73-, 147.13+, 147.075+, 447.000-, 52.68-; Pkt 146.7-, 145.05

Sept. 'ØØ pg.1 -85- 1,421

Scope

also **ATV & 4 autopatches**

Palomar Amateur Radio Club Inc.

Scope (USPS #076530) Vol. XXVI No. 9, September **2ØØØ**, published monthly by PARC, 1651 Mesa Verde Dr., Vista, CA, 92084. *Periodicals postage pd. at Vista, CA 92085.*
Dues $12/yr or $21/family/yr *(includes newsletter subscription, $3 in SDCo. & $4 out of SDCo.)*
Editor: Stan Rohrer W9FQN, 30311 Circle R Lane, Valley Center CA 92082

POSTMASTER: Send address changes to SCOPE, P.O.Box 73, Vista CA 92085-0073.
See pg. 12: Contents, Club Calendar, Repeater Use, PARC Frequencies, and PARC Nets.

Send $12 Dues To:
PARC, Box 73
Vista CA 92085-0073

Next Club Meeting

Charlie Ristorcelli NN3V CTR@Prodigy.com

*(Meetings are temporarily being held the 1st Wednesday of each month at the **Carlsbad Savety Center in Carlsbad** at 7:30 p.m. although most come at 7:00. See map on page 12 for directions -Ed)*

September Program

The Ultimate Fox Hunt!.

We are all somehwat familiar with the concept of Radio Direction Finding, and Fox hunting. Do you have an appreciation of the accuracy of RDF? Are you familiar with the difference between "Angle Of Arrival" (AOA) DF and "Time Difference of Arrival" (TDOA) DF?. Any idea of which is more accurate?.

How precise do you think RDF is? Would you be able to consistently find the transmitter you are "hunting" with precision to a degree where you walk up and "touch the transmitter"?

Well this month's program will give a fascinating account of commercial application of TDOA, a radio location technique which is well known to all "DF hounds", and which courtesy of GPS has become readily available, even to Ham operators.

N6VXM (Arnie) will present a program describing the application of TDOA to automobile location services, somewhat akin to the "LoJack" service you may have heard of, but based on a different technique and service. Come on out and enjoy what is going to be one of the best technical programs of the PARC 2000 program series.

See you at the meeting! 73 de *NN3V*

October Fest *(Auction)*

Ted Wilcox KF6BFI@amsat.org

KC6UQH, Art McBride has once again agreed to be the club's auctioneer at the October Auction. As always, it is nice to have someone who is familiar with most of the older equipment who can properly describe it in "glowing" terms.

So start looking through your junk box, garage, and all your other hiding places for that valuable junk that you would like to sell so that you can buy more to " fill up" those empty spaces. Remember, your junk is someone else's treasure! Ted Wilcox kf6bfi

Coming Events

Sept.6th, Wed.,	**Club Meeting**
Sept. 24th, Sun.,	**Club Picnic**
Sept. 9th, Sat.,	**VE Testing**
Sept. 23rd, Sat.,	**Ham Radio Round Up**
Oct. 4th, Wed.	**Club Auction Mtg**
Oct. 13-15.,	**MiraMar Air Show**
Oct.14th, Sat.,	**Peace Walk**

Sept.24th Picnic *(y'all come)*

The PARC Picnic is September 24th at Lake Dixon in the North East side of Escondido. *(see map -Ed)*

I-15 to El Norte East (1st exit past Rd 78 headed north), **La Honda** (to the left(north)), **enter, turn right 100 yds to Poppy 1-4.**

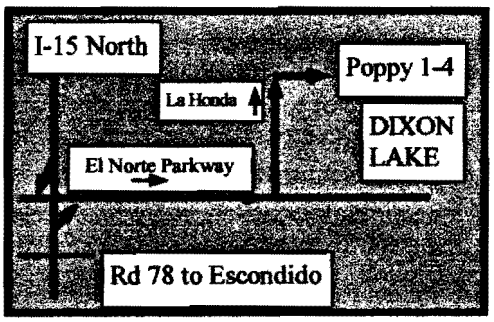
There will be many amateur radio related activities with instruction, VEC TESTING and demonstrations besides the annual drawing of prizes. Refer to Harry W6YOO's article for VEC registration procedures (page 2).

%%%%%%%%%%%%%%%%%%%%%%

The pavilions are within 100 yards of the entrance. Seniors get into the park free. Others pay by the carload (about $1/car). If you want to skip the fee, park outside and walk into Poppy. It is a short walk of about 100 yards.

FOOD: The club will provide "ham" (eating kind), Palomar Mt. Cool Clear Water, plates and utensils but you can bring your own utensils if you don't like a plastic picnic atmosphere.

You will need to bring additional food according to the first letter of your last name (we change the list each year) and since you are bringing only one dish, bring enough of the assigned food to feed your family plus six more. Hams get



hungry!

A->I, bring a salad or vegetable

J->O, bring a desert

P->Z, bring a main dish, casserole or side dish

If you have problems in bringing your assigned dish, we suggest that you pick another dish or bring chips, ice cream (iced for a hot day!), apples, soft drinks, etc.

Please note that you cannot bring (or buy) any alcoholic drinks: beer, wine, hard spirits, etc. This is a park rule as well as a club rule. The many park rangers are prepared to enforce this rule.

Sometimes there are not enough places to sit except on the ground. If you are arriving late, we suggest that you might want to bring a folding chair along with a folding table and/or a blanket to sit on.

PARC can reserve the small pavilions but not the tables next to them ..get there early to reserve "ur spot."

DRAWING RULES: about the same as always.

1)participation tickets must be picked up at the picnic by you or by your representative who must have a **written, dated, and signed permission** slip to pick up the tickets and any prizes that you might win.

2)you will receive tickets (maximum of 20) for participation in designated club events from **Aug. 1st 1999 to July 31st 2000**: meetings(1ea), designated work parties(1ea), repeater site(2ea), heads of committees(5ea), etc.

3)the drawing will be at the club picnic at 1:10 pm.

4)you or your representative must be present to win by showing a matching ticket stub with the winning callsign or member's name on it.

5)you are limited to winning only one prize even though your ticket is drawn several times (sorry). Most valuable prizes will be drawn first and in some cases you will be given a choice.

6)you must be a present member of PARC in good standing before tickets can be given to you. New members listed after July 31st 2000 will not have tickets until next year's picnic even though this years picnic is worth one ticket for next year.

7)PRIZES are —

1ea - $100 gift certificate

2ea - $ 50 gift certificate

4ea - $ 25 gift certificates

and MANY assorted small items too humorous to mention: Ham Stamp pin, Radio Range Meter, radio books, etc.

Children are welcome but you will need to watch and entertain them yourselves. There is a playground for them near the pavilions and there is a playing field for soccer, volley ball, softball, horse shoes, etc. but you will need to bring all of the equipment needed.

There are also hiking trails down to the lake but someone should go with them. Its warm and the "little crawly" things are probably out and about. Rental boats are at the main dock.

PROGRAM:

T-Hunt & Instructions: ***W9FQN***Stan (finding hidden transmitters)

Canoe Mobile: ***KE6ZLY***Glenn

Packet: ***KD6AKT***Ted

Mobile SWR: PARC Techs (2m/70cm)

NVIS (Near Vertical Incidince) antennas and equip used by ARES for local 160-40 meter operation: ***KC6YSO***David & ***WB6DAV***Dave

ARRL Membership Information: ***W6YOO***Harry

VE Exams: ***W6YOO***Harry and friends

Drawing Tickets- can be obtained from ***W9FQN***Stan who will have his yellow box with him and computer attendance printouts.

Schedule:

0830 arrive and set up, or earlier.

0900 VEC testing

0930-??? Displays. Hopefully, NVIS, CANOE MOBILE, PSK-31, PACKET, SSTV and other modes. Demonstrate your favorite mode!

1030 autopatch instruction, Q&A

1100 direction finding instruction

1115 hidden transmitter hunting

1200 eats

1200-1259 pick up your tickets from Stan W9FQN

1300 president's comments

1310 drawing for prizes

1330 ARRL membership info

1345 PARC Board available for questions and comments.

PARC hopes that many of you will be able to attend the club's picnic. It should be a lot of fun ..and you might learn something. The picnic is a great opportunity for you to talk to the club officers and board members, to meet other club members, and their families, and to learn more about your hobby in a more personal way. You will receive a participation ticket for next year's picnic if you don't have any this year.

Picnic VE Exams *(wow!)*

VE testing will be available at this year's picnic beginning at 9:00 AM. Exams for Technician, General, and Extra will be offered to include the 5 wpm code exam.

Examinees must register in advance by calling Harry Hodges, W6YOO, at (760) 743-4212 on Monday or Tuesday, Sept. 18 or 19.

Bring a means of photo ID such as a driver's license or passport, original of your license plus a photo copy, the original and a copy of any Certificates of Successful Completion, three one dollar bills, a pencil and a pen, and lastly a non-programmable calculator if you think you need it.

The examining team will be made up of SANDARC accredited examiners who are also members of PARC.

73, Harry

Last meeting

Great discussion on all the little things that make today's transceivers so hard to handle by: ***WN6K, AC6V, N6KI***, and ***KC6UQH***.

Attendance 80 with 8 guests.

Goodie Table

We are still looking for someone or some group of members that would be willing to work at the "Goodie Table' each meeting night.

If several members took on the re-

P.A.R.C. Inc (*2000 Board*)

Pres: Allen Maslowski **N2DCA** 858.642.2400x1229 N2DCA@amsat.org
VP: Charlie Ristorcelli **NN3V** 858.676.3307 NN3V@ARRL.net
Sec: David Patterson **WB6DAV** 760.727-5560 WB6DAV@juno.com
Treas: Jo Ashley **KB6NMK** 760.741.2560 KB6NMK@amsat.org
Dir#1: Ted Wilcox **KF6BFI** 619.295.1202 KF6BFI@amsat.org
Dir#2: Marsh Parker **WA6SAX** 760.751.8930 W6SAX@amsat.org
SCOPE: Stan Rohrer **W9FQN** 760.749.0276 W9FQN@Juno.com
Technical: Mike Doyle **AB6QT** 760.742.1573 AB6QT@amsat.org
MSh: Al Donlevy **W6GNI** 760.630.3096 aldonlevy@Juno.com

Board Mtg. 7:00 pm Wednesday of week following the Club meeting as announced.

Treasurer $$,$$$

Jo Ashley
KB6NMK @amsat.org

See me at club mtgs for "hard copies" of financial statement(s).

Past months "projects/ available":

Location/due	6.30.00	7.31.00
CD4#4~08.19.98	2,303.80	2,315.31
CD5#2~10.09.98	2,462.85	2,474.16
CD1#3~05.24.98	2,415.84	2,427.64
CD4#1~08.13.99	2,937.62	2,951.11
Checking	3,515.38	4,020.79
Post Office	101.38	100.18
CaSh+CD's	13,736.87	14,289.19
Pre-Pd.dues/liab	4,576.00	5,477.00
projects/available	$9,160.87	$8,812.19

02.31.96	$7,884	7.31.99	$8,888
02.31.97	$4,880	10.31.99	$10,191
02.28.98	$8,414	11.30.99	$9,638
2.28.99	$10,118	1.31.00	$10,212
4.30.99	$8,546	6.31.00	$9,161

Routine: Scope printing ~$300/mo; Scope postage ~$70/mo; electricity ~150/mo; phone ~$50/mo = **~$570/mo.** (Insurance each Nov. ~$1,100/year)

Under consideration: 6m repeater spare ~$200; 449.42 repeater spare ~$200; spare antennas ~$700; etc = **~$1,100.**

Approved expenses not spent: $100 tent trailer; = **~$100**

Last month's Scope Helpers:
Thanks to Art and Anita for the folding space and the refreshments. Really great cookies.

KB6YHZ Art	&	***KB6YHY*** Anita
W6GNI Al		***W6YOO*** Harry
N6UZH Terri	&	***MY2KID*** Tyler/Matt
KG6AEW Bill		***KB6NMK*** Jo
W9FQN Stan		***WB6DAV*** David
KC6WAN Ralph	&	
W6HCD Nash		***N6OYG*** Victor

sponsibility, you could serve every second meeting or third meeting and it would be less of a burden to all. If you can help, contact our president ***N2DCA*** or any Baord member. See pg 3. (*Did not receive goodie "list" for July -Ed*)

Thanks (*muchas gracias a todos*)

Tnx to the following goodie providers: ***KD6YJB***, ***N6QQB***, and ***????***. Your contribution to the meeting was rewarded with one extra activity point.

Since we have temporarily moved back to the Carlsbad Safety Center, we have been having problems knowing who brought goodies to eat. If we missed you, please let us know ASAP. There will be a cookie signup sheet on the table for you to sign.

Long AGOGO (*history*)

WA6KZN-K6HAV-KI6JM(*sk*)-W9FQN

(*The purpose of AGOGO is to recall info on file in previous editions of the Scope -Ed*)

(09-99) ..AC6XK on Wilderness Radio ..Picnic info ..PARC History Diary & Incorporation ..Miramar Airshow ..449.425=>449.420 move ..patches new codes (computer operated) ..patch #2 moved ...

(09-90) ..W9FQN's 1st Scope issue as Editor ..meeting at Lincoln JrHs ..W6NLO on Diamond antennas ..Picnic Info ..K6HAV to be missed ...

Board Mtg. (*Minutes*)

David Patterson WB6DAV@Juno.com

Next meeting at W9FQN QTH

(*Club members are invited to Board meetings at Board members QTH's at 7pm on the Wednesday following the club meeting as announced herein. You receive one participation point for attending*)

Minutes of Board Meeting Aug. 2000

Meeting called to order at 1905 Hrs (*by KB6NMK, treasurer -Ed*).

Members present: Jo KB6NMK, Dave WB6DAV, Ted KF6BFI, Marsh W6SAX, Stan W9FQN, Al W6GNI

Members absent:Allen N2DCA, Charlie NN3V and Mike AB6QT

Stan presented a renewal for a club trailer and bills for tape, nuts and bolts for the repeater site ($10.16) There was a SSTV test on Wed. night at 9:00 PM on the 146.730 repeater. It was voted and approved to allow a SSTV net on Sun. night at 9:00.

Snack table at the meetings need to have a sign in sheet for the cookies and other donations. Also volunteers are needed to work the table. It will be announced before the meeting is over, where the sign in sheet is located for those that missed signing in.

Scope will be back on www with the September issue. Stan to give older copies of Scope to HRO and be marked sample. Deadline for Scope 8-25-00.

Ted said that there will be a horse race at Warner Springs on Jan. 6, 2001 and we need volunteer radio operators for that event. We had a visitor Megan Prentice from Childrens Walk for Peace. She was asking for radio operators for the event on Oct. 14, '00. She was referred to ARES and told that contact with KC6YSO should be made as they handle this kind of events. That we will allow them use of the 146.730 repeater for the event.

Marsh W6SAX thought it would be a good idea to have a test session at the picnic. He also is looking for a demo of APRS anyone interested should contact him.

November is nominating month for club officers and a nominating committee will be formed.

Ted KF6BFI brought up the question of next year's field day location. We are open for suggestions and someone to head up the activity. Also discussed was the auction. Art KC6UQH will be the auctioneer again this year.

Al ask why there wasn't any brochures at HRO. Stan will give Marsh Scopes and Brochures for HRO. Stan is also getting the picnic points together and will be handing them out at the picnic.

The DX club is using the 439.050 backbone on a trial bases. It was voted that they be allowed to continue to use it.

It was approved to look into putting a vent, lights and wiring into the storage container.

The autopatch is still having problems that are being worked on. If you are having problems contact Stan W9FQN.

It was approved that Stan would make a cover for the generator out of the surplus plywood.

Al will change the label on the front of the Scope to reflect expiring membership.

Next meeting will be at Stan's house.

Meeting adjourned at 2120 Hrs Dave

Club Membership

Al Donlevy W6GNI aldonlevy@Juno.com

DON'T FORGET TO CHECK YOUR LABEL EACH MONTH!

Notice your club expiration date (MM/YY) and sometimes other information that may be printed there.

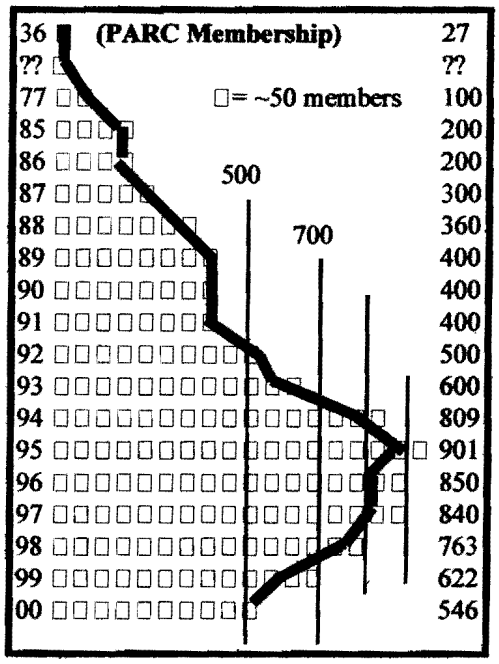
In the past we have been putting a special "**LAST ISSUE**" sticker on with your address label. **NO MORE!** Your label will still warn you, and "last issue" will be marked in red. But, if you see that on your label, your membership has most likely already expired!!!

In the future, and starting with this issue, we will put a special warning sticker on when it is time to send in your renewal. (That is when you have one more issue of the SCOPE to go).

As you know, the SCOPE is printed and mailed a full week before the monthly meeting, and we have to know how many to print, and have the mailing labels printed. Timely renewals insure that no one is overlooked in the mailing. Tnx for your cooperation. 73, Al

Taco Wagon (sk?)

Years and years ago, as I remember it, we were donated a trailer with an old generator on it which was later disposed of. It appears the trailer came from Merit Arnold, N6NLO (now W6NQ).



A sort of plywood platform was built on it and the trailer was used for one of our first Field Days in Valley Center. The plywood floor had a hole burnt in it which was quite large and operators kept falling or dropping things into it leading ***N6KI***Dennis to refer to it as the ***Taco Wagon***. The name has always stuck.

Later a metal frame was errected so that it would have a plywood cover and support a 35 foot crankup tower on it. The trailer was to be used as an emergency trailer but the club was never able to get it "road" ready and over the years has served as a storage vehicle and as an operating position for Field Day.

The tower has been used on the trailer the last several FD's but there has been no operating position inside.

Because of the poor condition of the trailer, the Board has decided to put the trailer to rest (sk) at the first opportunity.

The plywood will all be burned and the chasis junked. The plywood is so rotten that ***W9FQN***Stan, in shorts, several years ago fell through the roof with one bare leg.

We need people with hammers, possibly a saw, and something to cut through 8-10 square metal tubes.

If you would like to lend a hand "decomissioning" the Taco Wagon, please contact ***KR6BT***Merle or ***W9FQN***Stan.

Roundup *(no weeds)*

HI everyone, would like to take this time on behalf of Don, N6CEO to invite you and your club or organization to this years Ham Radio Roundup. It will be held on Saturday September 23, 2000.

Times of the event will be from 10am until around 3pm or so. Set up will start at 7:30am. We invite you to come and setup a display, let us know what your club or group is doing. At the present time I do not have a a contact person for RACES or North Shores, so if you are connected in anyway, please pass the word along.

I would like to see other groups such as REACT, MARA, CDF, ILACSD and so forth set up booths as well, so folks can learn more about them. If you have any questions please feel free to ask ..Section Home Page:

http://www.qsl.net/sdgarrl

Personal Web Page:

http://www.qsl.net/nz6t

The Round Up this year will be held at the Kearny Mesa Rec Center, Mesa College at Armstrong St. Thanks, and 73, Tuck, NZ6T, San Diego Section Manager.

President's Message

Allen Maslowski N2DCA@amsat.org

(not available this month -Ed)

Hikers,

Here's a low-budget idea that might create some interest in both PARC and our hiking group and provide us with some fun as well.

Both Cowles Mountain and Iron Mountain are popular hiking spots and both have a steady stream of climbers on the weekends. Maybe we could set up HT/mirror stations on those two peaks and at a few more at locations like Palomar, Cuyamaca, Black Mtn. (in Penaquitos), Woodson etc to add more interest for those watching and invite onlookers to participate and experience using an HT/signal mirror. Whenever we've done this before on Mt. San Jacinto, Keller Peak and Cuyamaca Peak those who took us up on our offer seemed to really get a kick out of it. Maybe that would have been a good time to hand them a Scope or additional handout info sheet? Inputs please? 73, Ed

Earthquake E-mail!

(Earthquake Notifications by E-Mail)

If you are at all interested in earthquakes, you can have an automatic e-mail from the USGS land in your mailbox seconds after shake information is collected and analyzed. It's a free mailing list that you can subscribe (and unsubscribe) to at will.

http://www-socal.wr.usgs.gov/mailing-lists.html
Mike Morris
(*Signing on and off this list is easy. -Ed*)
(*via CGC Communicator newsletter*)

Junk Junk Junk ! *Junk?*

From time to time the club has out on tables junk (*high class radio items -Ed*) which has been donated to the club.

Most often, W9FQN brings in buckets of items which the club then sells usually for **1/2/3/** or **4 items for a dollar**. The proceeds go into the club's treasury.

We also have many other classes of items which the club would like to sell so that we have more space in the club's cargo container:
computer parts, modems, B&W monitors, assorted wire, boxes of items 2 for a dollar, boxes of 10 items for a dollar, etc.

So be prepared to bring your $1 bills and load up on these rare items that you will some day need.

Just drop your $1 into the bucket with the sign on it and gleefully take home your precious items!

The August meeting netted the club $12 and some change.

Participation Points

Participation Pts are given for various club activities as reported in the August 2000 Scope.

The following club members received 20 or more points:
AB6QT, KC6MCU, KB6NMK, KB6YHZ, KC6WAN, KC6YSO, N2DCA, N6TEP, W6GNI, W9FQN, WB6DAV, WB6FMT, WB6IQS, KE6WOE, KE6ZLY, KF6BFI, and **NN3V.**

Those members who received the most tickets in their participation area:
FOLD/STAPLE: KC6WAN, W6YOO, N6UZH, W6GNI, KB56YHZ, KB6YHY, W9FQN, KB6NMK, N6OYG, and W6HCD.
BOARD: KB6NMK, and W9FQN.
GOODIES: N6TCB, W9STN, and N6ISC.
WORK PARTIES: KC6YSO, WB6DAV, W9FQN, KD6EBY, WB6FMT, AB6QT, and KD6VHI.

It needs to be remembered this all is based on Aug99 to July00. Some of you have a good start on next year's participation points!

W1ICP (*sk*)

Amateur Radio Legend, Lew "Mac" McCoy recently passed away. See -
http://www.**arrl.org/arrlletter/00/0804/**

Field Day Lost/Found

The following items were -
Lost: small hand axe of W9FQN; ??
Found: large pillow; long 2m beam; ??

If you know of any other items which were lost/found, please contact a Board member ASAP. (*last notice -Ed*)

Club Station

Over the years the club has been donated (or in one case bought) some of the following equipment which can be used as part of a club station if there is enough interest:

Kenwoods TS-520 HF + VFO, TS-820 HF; **ICOM** 2AT 2m , 2ea IC-735 HF, 2ea IC-71 6m; **Azden** PCS-4000 2m; **XXX** 2ea 257 HF; Tuners MFJ and Dentron; and other small items to humerous to mention.

Also 2ea crankup towers; 2el Triband Beam; VHF/UHF Beams, antenna rotators; Honda Generator, solar pannel;

We need interested help to install -
- radios (all modes)
- tower and 2el triband beam
- UHF/VHF antennas
- alarm system
- mobile antennas to trailer
- 80/40 meter dipoles
- solar power w/batteries

Contact a Board member if you can help in any of these areas.

Net Controls

Off Roading - The 9 pm Tuesday evening Off Roading net needs another

HAM RADIO OUTLET
HRO
Tom KM6K
Ron N6OMW
Jose XE2SJB
Bob KA6EKT

KENWOOD
rf CONCEPTS
DIAMOND
US TOWERS
KANTRONICS
YAESU
MFJ, ICOM
BENCHER, Inc.
HUSTLER
COMET
AMERITRON

Astron,
AEA,
OUTBACKER
Larsen Antenas
TEN-TEC
hy-gain, Tri-EX,
cushcraft
and
others too
numerous to
mention!

Drop in to see our display of working equipment.
Find out about Pkt location determining equipment (APRS).
Check our complete line of magazines, ARRL books, license manuals, and Bulletin Board with all sorts of goodies listed.

Open: **10a.m. - 5:30p.m.** *Ask about our great prices*
Monday thru Saturday
858 560-4900 or toll free **1-800-854-6046**
5375 Kearny Villa Rd, S. D.

Directions: On 163, take **Clairemont Mesa Blvd.** off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and **HRO** sign. Be sure to see our equipment in action on **real** antennas.

net control since ***AB6QT***Mike is going to be teaching a class at Palomar College and will not be available for net duties. Contact ***AB6QT***Mike or ***K6PFP***Jerry for more information.

ARES - The 8:30 am Sunday morngin ARES net would like to provide some of its members an opportunity to gain experience in handling the emergency net for 1-2 months. Contact ***W9FQN***Stan or ***KB6NMK***Jo for information.

Morse Code - it appears as though the need for the Morse Code net has passed with the reduced code requirements and most of the net controls have stopped sending the code.

Many thanks to all of those dedicated amateurs that spent at least one night a week with their hour long code nets on 147.075. Thanks. Many people who listened in on your transmissions never bothered to check in but your practice sessions were greatly appreciated.

Traffic Net - Because of reduced traffic and fewer participants to handle the traffic, ***N6TEP***Charles and crew have cut down their operation to 8 pm only on Tues, Thur, Sat & Sunday on 146.730. If you are interested in learning how to handle traffic (not car), check into the net and ask for Charles (or the current net control).

Barbecue *(Palomar Mt.)*

(The Palomar Mt. Volunteer Fire Dept. is PARC's fire protection unit at the repeater site and if possible, members are encouraged to support this event from time to time. It IS a great Barbecue and an opportunity to visit Palomar Mt. and the Palomar Observatory! Be sure to wear your PARC badge and an amateur radio shirt if you have one-Ed)

Thanks to all who have already purchased Raffle tickets for the Annual Palomar Mountain Volunteer Fire Department BBQ. **September 2nd** is just around the corner.

We have LOTS of prizes that have come in during the past week with more on the way. A vacation trip for two, color TV, lots of gift certificates to local restaurants... We might even have a free manicure in case a certain local wood cutter gets lucky again this year.

What???? You don't know about Chris the Woodcutter winning a manicure?!?! The pictures made the front page of the Valley Center Road Runner. He also won the trip to Hawaii - but I think all agree, the manicure was toooooo much fun. Read all about it on our website:

www.palomarmountain.com/1999_bbq.html

Tickets are $1.00 each. You get one free ticket with every book of ten. So, how many do you want for FREE? Once again this year, we are offering FREE FILL OUT! Let me know how many tickets you want, drop a check in the mail and I'll write YOUR NAME and phone number on each ticket! (YOUR name - I promise!) Just think of how much time that will save you the day of the event! : -) So, how many do you want for FREE? ~Bonnie

Nomination Committee

The nine member PARC Board is composed of **four** elected officers, **two** elected Board members, and **three** appointed Board members who are appointed by the president with the approval of the present elected Board (PARC By-laws).

The appointed members are PARC committee chairmen and are serving the club in some capacity. Lately they have come from:
Membership Chairman, Repeater Site Technical, Repeater Site Chairman, W6NWG Trustee, Scope Editor, Field Day Chairman, etc.

There will be Board openings this year and the Board hopes that when you are approached that you will seriously consider serving the club in some capacity.

Normally, the **Nomination Committe** is approved at the **August** Board meeting, announced in the **September** Scope and the Nomination Committee announces their findings at the **November** club meeting where the club will also accept nominations from the floor.

The election takes place at the **December** club meeting.

The Nominating Committee duties are usually as follows:

1. Survey the present Board members to see if they are willing to serve another year.
2. The committee is furnished a copy of the club's participation list so that they can see who is active in the club.
3. The committee canvases the active membership to obtain qualified people to run for office.
4. The Committee head makes their report at the November club meeting with their recommended slate of officers.
5. The club Election is held at the December club meeting and the new officers take office when elected.

Harbor Freight

Most of you know about Ham Radio Outlet but few have heard of Harbor Freight Tools here in the San Diego area.

While they mostly sell tools, they do have some items that amateurs might be interested in buying:

Digital AC/DC multimeter	37772
Emergency Light	38013
Duct Tape	30100
Power Strip	37417
6/12 V circuit tester	4288
Magnifier Head strap	37586
Multi-tester AC/DC	30756 (great!)
Load Battery tester	6317 (great!)
Float Charger	41288 (great!)

These items are all on sale until September 11th.

Editor

This issue of the Scope marks my 10th year as its editor and the starting of the 11th with 1,420 pages already produced.

My 1st issue was typed up on a Radio Shack Model IV computer using a typewriter style printer and while the printed copy was sharp, there was little formatting that could be done resulting in a lot of "pasting" of extra material with glue.

Many thanks to all of you who over the years have helped contribute articles and materials to be used in the Scope. ***W9FQN***Stan

For Sail

(W9FQN@Juno.com)

Personal equipment ads *are free to members and could be "bumped" after 3 mo. Copy ads after the form used below and send to Editor, W9FQN, 30311 Cir. R Ln, Vlly. Ctr. CA 92082, (W9FQN@Juno.com) before the 20th of each month.*

Commercial Ads *in big boxes: $2/col. inch/mo. We will "squash" your copy to the number of inches bought.*

(8.19)Free-Two 30-40' telescoping masts-you pick up; **Alliance** heavy duty antenna rotator w/cable $50; **Palomar** noise bridge $45; **Swan** 200-2000w SWR meter $50: 727-8836 or kh6tl@juno.com.

(8.17)**Garmin GPS** 40 hand held GPS w/NMEA data output, works w/APRS, good for hiking (lat/long/direction/speed) with accuracy up to 49' (orig $199) $99: Scotty 727-8836 or kh6tl@juno.com.

(8.14)Pre-ban Opto-elec R-10 scanner; **Sangean** ATS-818 shortwave receiver: Both mint, with extra's: KD6BFR, Bill Call 760-480-6805.

PALOMAR ENGINEERS
Box 462222, Escondido, CA 92046

TOROID CORES
Palomar stocks a wide variety of cores and beads. Our RFI Tip Sheet is free on request. Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. Model RFI-4 $25 + tax + $6 to ship.

BALUN KITS
Ferrites slip over coax. Shrink tubing holds them in place. Works from 3.5-60 MHz (Use two kits for 160 m).

Model BA-58 (for RG58, RG8X & similar cables up to 1/4"dia. $7.50 + tax + $6 S&H/order
Model BA-8 (for RG-8, RG-213, 9913 and similar cables up to 1/2" diameter. $15.00 + tax + $6 S&H/order

TUNER-TUNER
Tune your tuner without transmitting. Save that rig! Just listen to the Tuner-Tuner's noise with your receiver. Adjust your tuner for a null and presto! You

For catalog of www.Palomar-Engineers.com
Please check our complete ads in QST, 73, CQ, and World Radio magazines.

(8.11)sell/trade **National** NCX-5 xcvr 10-80m match ext VFO/spkr/ACpwr/mobilepwr/mike/tubes/manual $200?;**Hustler** mobile ant base 10/20/40m coils $50?; **Vibroplex** Orig Deluxe keyer w/case $100?; 2 antiques for bids **Magnavox** audio fq. amp type AC3/modC/#2236; used 3 type 33 push-twist tubes, external "A&B" battteries; Heintz/Kaufman Ltd, San Francisco, Radio receiver type 900 (regenerative) # 113,3800-23000kc USPat 1,507,689-1,907,806; trade for 2m/440MHz gear/ICOM boom mike Yeasu NC-18 desk charger: Larry W6LCT Vista 760.724.9996 B4 5pm or 7-9pm daily.

(7.27)**Kenwood** TS520 HF transceiver 115 vac or 12 vdc w/spkr/manualmic $295; **Kenwood** remote VFO520 w/man $75: Steve W2MRM 858-451-5690.

(7.25)**Ten-Tec** Titan amp Mod 425 10-160m mint 20hrs orig box w/manuals $2,500: Kris W6KTE 760-941-3555 Vista

(7.19)**Zerox** printer 1340A w/manual $15; **Heath** H89 computer w/2drives/pwr/man $20; Printmate 350 do matrix printer $5; Mini-quad HQ-1 ant w/rotator/man $30: Dan W2LUK 858-592-9901 Poway.

(7.19)3ea 220Mhz mobile xcvers w/manuals; **ICOM** 38A $375new; COM 37A $250new; **Kenwood** TM321A $395new; mobile ant; Larson mag mt ant; 220 J-pole with push up mast & stand; DAIWA CN-55 20w/200w SWR meter; 2m packet station, Packet PK-12 controller, **Kenwood** 2m 7950 xcvr, cable assys & manuals, computer software and disks $700new; units are working, all prices were NEW and all reasonable considered: Al N6GNB Ulrich525@aol.com 760-741-1840

~~(7.15)**Alincos** DX-77T HF $600; EDX-1 Ant Tuner $175; **Yaesu** FT-911 UHF 1.2Gig HT W/vox $400 (all units 3 month's old in box): C.L.Ball N6HLY @ 858-538-3532.~~

(7.6)**Standard C1208DA** 50/10/3w 2m mobile mic w/display/controls $120; **AEA PK-88** TNC packet $20; **Cushcraft** 4el 2M "boomer" yagi 4' boom w/ Archer TV rotor and control box $35; Mars SWR meter HF $5: Russ K6KW 760-436-6714 Carlsbad.

(6.13) 50' **Tri-x** tower on ground $300 with FREE R7 vertical: K6HU Art 619-697-1538 SD (San Carlos section).

(6.2)HF Ant. - **Outbacker** PERTH used once $200: Joe KE6EZG 760-730-3499

(5.19)**Hallicrafter** (Sky-Buddy) rcvr works great with antenna + instruction book $100: Bob KE6WEP 760-726-8279 Ocsd.

(5.6)**Kenwood** TS-940 w/phone patch, mic & Kenwood TL 225a amp. All w/manuals $1,000: Steve (949) 940-0069

(3.31)**Yaesu** 6200 440/1.2 Gig $350; **Kenwood** TS-950SD $1500; **ICOM** 2100 H 2M $135; **Swan** 350 $250; URM-25E Signal Generator $75; Radio Shack 5/8 Mag Antenna $25; Forham SG-490 Signal generator $75; Forham FG-202 Function Generator $65; **Canon** B&W printer 200e $40; **Tektronix** O'scope 454A $200: Rod 760-945-6050 (Ocsd)

WANTED: *(A few good men/women)*

(8.16) WANTED: working IC-R70 Receiver: Berand, WBØYCQ (760) 722-5394 or WB0YCQ@ARRL.NET

(8.10) Want pwr and audio output transfomer (pairs) from only vacuum tube **stereos**, old speakers, stereo tuners/amps working or not from '50s-70s, will pickup & pay cash: John ac6ts@amsat.org or 760-747-9431.

(7.6)Wanted used SP-230 w/matching speaker/cabinet for TS830S: 760-722-5394 or wb0ycq@arrl.net Ocsd.

Technician Wanted at Wavelynx in Vista RF, analog and digital technician for repair of microwave radios.
Contact Charles at 760 598-9090 or email resume to charles@adnc.com

Reaching Amateur Radio Operators for Christ

Reaching Amateur Radio Operators for Christ meets each Sunday at 7:00p.m. on 147.270. All HAM operators are welcome to drop in and share scripture or just listen. KJ6VHA

The
NiCad Lady Co.
O.E.M. Assembly
Rebuilds
Batteries-Lead Acids
Replacement Packs
20585 Camino Del Sol Unit B (909)653-8868
Riverside, CA 92508 Fax (909)653-5189
www.nicdlady.com nicdlady@nicdlady.com

For Sail

If you have sold your ***For Sail*** item or if you bought an item, please notifiy your editor so he can remove it from the ad column.

Donations

During the past few months the club has received the following donations probably not mentioned before:

San Diego National Bank donated five pentium computers with mice (mouses?) and keyboards. These were less the color monitors which we will be needing. They were given through ***KF6LRW*** Toby.

BEI donated large amounts of computer equipment not working or out of date. A great source of many spare parts. (*see surplus this page*)

Ralph Thompson donated several very clean scanners: Bearcat 220 and Kenwood R-2000.

Survey

Well, so much for last month's surveys! Only two members sent in their preferences: ***KR6BT***Merle & ***K6PFP***Jerry! So much for surveys to help the club understand who we serve.

Surplus

One group of older donated computers are probably good for members to play with and some are just good for spare parts: 3.5" dirves, HD's, cases, power supplies, etc. Several have vertical cases around 3 feet tall and would make good cases for lots of "extra" goodies that you might want in a computer.

We also have boxes of keyboards, power supplies, B&W monitors, a 286 computer and monitor, etc.

And our supply of dot-matrix printers is quite extensive (narrow and wide carriage).

Also electric typewriters (partial and completely electric) ..and many other items too humerous to mention. See W9FQN about availability.

Roundup

The **Ham Rdio Roundup** will be on Saturday, September 23, and the Kearny Mesa Recreation Center, 3170 Armstrong St, San Diego.

There will be exhibits and displays by ARRL, ARES, RACES, various served agencies, and local clubs. Potluck at noon. Bring a dish to share. Soft drinks provided.

Hope PARC will have an exhibit. I know it's the day before the PARC picnic, but that's what happens sometimes!

Please contact Don, N6CEO, 858-273-4179, for information about reserving space, set up, etc.
-***KC6YSO***David

Morse Code

The crew on board the Kursk, one of Russia's most modern submarines, have been able to communicate with the outside world only by tapping Morse code on the hull since they were forced to shut down the reactor and let their craft sink to the bottom.

(*One wonders how Morse code can be tapped out on the hull of a ship. Your editor would be tempted to lower a hydrophone and ask questions of the crew. One tap for* **YES** *and two for* **NO** *although this would not be considered Morese Code-Ed*)

Alligator Award

Over the years PARC has had an "Alligator Award" which is handed out to members who talk longer than the repeater's time out timer. There have been several suggestions that we revive the award and again start publishing the names in the Scope of those that get "bit" by the Alligator.

Will the alligator get you?

Club Picnic

September 24th

Make plans to come !

Committee Chairmen

(*appointed to serve Sept'99*)

ARESinfo.	-Dennis S	K7DCG@amsat.org
Attendance	-**Stan R**	W9FQN@Juno.com
ATV	-BillS KB6MCU	W6GIC@amsat.org
Auction	-TedW	KD6BFI@amsat.org
Badges new	-Al	W6GNI@amsat.org
old	-John T	W6OLQ@amsat.org
Batteries	-David KD6EBY	DAT@Gerry.Palomar.caltech.edu
BBSMonitor	-Bill B	N6FMK@amsat.org
Billing:Ads/etc	-Lyell K	K6GVM@arri.net
By-laws	-Paul KF6VIE	pdecicco@pondlaw.com
&	-Ron RWA9JCL	r3mb@concentric.net
ControlOps.	-filled	W6NWG@amsat.org
D.Mar Fair	-Barbara R KA6FPS	Tennis42@Juno.com
Emergency QTH's	(Emergency Com. Centers)	
HarryH	-W6YOO	W6YOO@amsat.org
DennisV	-N6KI	N6KI@amsat.org
Equip Inv.	- (to be announced soon)	
Field Day	-Charlie	NN3V@ARRL.net
FDTech.	-John K	WB6IQS@Juno.com
Historian	-Stan R	W9FQN@Juno.com
Interference	-BillS KB6MCU	W6GIC@amsat.org
MtgGoodies	-_____	_____
Membership	-Al W6GNI	aldonlevy@juno.com
Nets	-**Stan R**	W9FQN@Juno.com
Newsletter	-Stan R	W9FQN@amsat.org
PALBBSpkt	-Bruno H	KF6QDP@amsat.org
Patch Info	-Stan R	W9FQN@Juno.com
PatchETronics	-Jerry H	WB6FMT@amsat.org
Picnic	-MarshP	W6SAX@amsat.org
PowerAC/DC	-Mike P	KD6VHI@amsat.org
Programs	-CharlieR	NN3V@ARRL.net
Publicity	-Fred S	KE6BGI@amsat.org
QSL Cards	-Jim C	KD6IVF@amsat.org
RACESinfo	-Jo A	KB6NMK@amsat.org
Red Flag-	W6HCD	NashWilliams@Compuserve.com
Rptr Site	-Stan R	W9FQN@Juno.com
Rptr Skeds	-Stan R	W9FQN@Juno.com
SANDARC	-Sybil A	W6GIC@amsat.org
	-BillS KB6MCU	W6GIC@amsat.org
SellerTable	-John K	WB6IQS@Juno.com
AstSWDivDir	-Walt	WA6ODQ@arri.net
TechSite	-Mike D	AB6QT@amsat.org
TestingVE	-Rusty M,	DuneDancer@worldnet.att.net
Training	-_____	W6NWG@amsat.org
TrusteeW6NWG	-MikeD	AB6QT@amsat.org
Web Site	-Frank L	KE6WOE@amsat.org

(Net Managers) (see pg.12)

ARES Sun	-Stan R	W9FQN@amsat.org
Staff Net	-David D	KC6YSO@amsat.org
ARES 6m	-David D	KC6YSO@amsat.org
Ham Help	-Mike D	AB6QT@amsat.org
	-David D	KC6YSO@amsat.org
Hiking	-Ed	KF6DXX@Juno.com
	-Glenn KE6ZLY	KE6ZLY@Juno.com
MARA	-Cathy KE6IQU	W6NWG@amsat.org
Microwave	-Kerry B	N6IZW@qualcomm.com
Off Road	-Jerry A	jwak6pfp@cts.com
	-DickW KA7AYT	rwillmek@home.com
	-Mike D	AB6QT@amsat.org
Sailors	-Larry D	W6QCA@amsat.org
Traffic(SDCTN)	-CharlesN6TEP	cmiele@juno.com

Names in heavy type are looking for replacements. Appointed members serve until they find a replacement that is approved by the Board.

Questions about club policy or for information can be addressed to ***W6NWG***@amsat.org or P. O. Box 73, Vista. CA 92085-0073.

Tech Report

Mike Doyle AB6QT@amsat.org

Technical and Operational Things: News, Repeaters, Autopatches, Contests, etc.

449.800 => 445.600

Please be advised that the Fallbrook ARC repeater system frequency on 70 cm as of 17:00hrs local time Aug 4, 2000 has been changed from 449.800 to 445.600 - offset and pl 107.2.

This has been a change due to SCRRBA coordination and should eliminate interference from other repeaters. Thanks goes to Bob Gonsett, W6VR, and WB6DIJ for their efforts to put this together. (de Bill Dewey WD6AHW)

449.42 ==> 447.000

Sometime during the latter part of August or the 1st part of September, we will be changing to 447.000 MHz per the instructions of SCRRBA, the 70cm frequency coordinator.

Almost a year ago we asked SCRRBA to move since the older rigs of members and visitors to the SDCo area were not able to use the 449.420 frequency.

When the 447.000 frequency in our area was no longer used, SCRRBA told us to move there. This frequency, we believe, will work out at our site better than a higher frequency such as we have been using.

(*looks like SCRRBA has been busy moving 70cm repeaters around -Ed*)

Field Day 20m (O Oh)

To whom it may concern: FYI: Just to let you know that we were being "WATCHED" by an Official Observer (OO) during our field day events.

I (AB6QT) Trustee for W6NWG callsign received a notice that we had an operator on 20 mtrs. (14.1507 mhz) operating illegally OUT OF BAND during field day.

He/She probably didn't realize that his/her SSB signal is somewhere around 2+ KHZ wide and that operation on 14.1507 mhz puts his/her audio into the CW portion of the 20 mtr band. This notice was sent by the OO in an effort to make us better operators, and it was indicated that no response was required. 73 de AB6QT (Trustee).

Callsigns (*the whole thing*)

Members are reminded that the FCC requires that you give your callsign every 10 minutes and at the end of your last transmission.

PARC wants your callsign on your **first** transmission AND then according to the FCC rules.

For our newer ham members, it needs to be remembered that the use of phonetics is only done when there is a possibility of confusion by the person you are talking to. Usually this requires only one transmission using phonetics.

Here are some examples of improper callsign transmissions using the club callsign of **W6NWG**:

Whisky 6 November Whisky George
W6 November Whisky George
November Whisky George

It must be remembered that the above are permitted at least once to someone new that you are talking to if they do not understand your callsign.

During FD our FD groups while they are sitting on one frequency calling CQ Field Day, many times will use -

Whisky 6 Nothing Works Good

but identify many times during the 10 minute period as -

W6NWG

which is the club's ONLY valid FCC callsign. It is what appears on our license. Not

Whisky 6 Nothing Works Good

Work Parties

(*General workparties are usually scheduled the first Sunday after the first Wednesday Club meeting -Ed*)

Next general workparty is Sunday, September 10th at 10:30 pm.

New work: remove/install heliax; install/replace crossarm; move 224.900;

August 6th: Another great day at the repeater site!

We got a slow start this year for all of the things that needed to be done but thanks to some excellent help lately, we have progressed from being several months behind to about on schedule or

From MILLIWATTS to KILOWATTS

RF POWER TRANSISTORS - TUBES - POWER MODULES
Best pricing on U.S. & Russian Transmitting & Receiving Tubes
3-500ZG - 3-600Z - 811A - 572B
4-400C - 6146B & W - 8072 - 8560AS - 8873 - 8875
3CX400A7 & U7 - 3CX1200A7 & Z7 - 3CX1500A7 - 3CX3000A7
4CX250B & R - 4CX400A - 4CX1600A - 5CX1500A
Plus full inventory of Broadcast Tubes to 20KW
Complete Inventory for servicing Amateur and Commercial Communications Equipment
Transistors - Modules - Diodes
Relays - Trimmers - Capacitors
Heatsinks - Transformers - Chokes - Combiners - Wattmeters - Books
Send for your FREE 1998 Catalog at
e-mail: rfp@rfparts.com
(800) RF-PARTS - (760)744-0700: fax (760)744-1943
RF PARTS, 435 S. Pacific Street

even slightly ahead of schedule ...and I think we can have things in shape before the first snow falls ...

TOWER / HELIAX - all of the non-used heliax is removed from the tower . ***KF6NKC***Dan and ***OE8SOQ*** Helmut spent most of the day on the tower ...three new lines have been strung and one of them connected completely ..next work party will see us string up a lot of the new cable and remove the old cable that is being replaced.

WB6DAVDave and ***W6GNI***Al moved a repeater, installed it in the Frig building and installed a new heliax connector on the shortened heliax.

Helping as needed were: Rosie (Helmut's xyl), ***KC6YSO***Dave, ***KE6LZY*** Glenn and Gloria, ***KD6GNB***Bob, ***N6URW*** John, ***KC6YSP***Tony, ***KC6WJB***Steve, and ***KF6EFN***Carol

BLOCK BUILDING - all repeaters are GONE except for 224.900 which will be moved September 10th by them. All wallboard removed along with the wood flooring. We are now down to bare cement. All tables are gone. Mike KD6VHI can start in on the inside of the building almost anytime he wants ..at least the left and back walls with floor space are cleared. We do have some heliax and other items stored in the building which will need to be removed ASAP for complete access.

The KGB repeater was moved and checked out. It works fine.

The trench was filled in. The little trees watered. Weeds pulled. Twenty foot crossarms were looked at for the lowest set of crossarms.

We started at about 10:15am and ended at 2:30pm ... a GREAT day on the mountain.

There was an accident on Southgrade road and we all had to come home via East grade road so we were treated to a view of lake Henshaw.

Again, many many thanks to all who participated today .... you really put us back on schedule for the work that needs to be done in 2000!

73, Stan W9FQN

Patch:

Jerry Houser **WB6FMT@amsat.org**
Stan Rohrer **W9FQN1@Juno.com**

Pin Numbers - If you don't have a **PIN** number for the club's autopatch system, you can obtain one easily from me at club meetings or via my e-mail address above (W9FQN).

Membership - If you fail to renew your membership, the computer will kill all calls that you attempt.

The computer generally gives you at least a month grace period BUT if you wait several months and then re-join, your patches will not be allowed until you contact W9FQN at a club meeting or at W9FQN1@Juno.com with the information that you re-joined.

At present, there is no communication between the membership chairman and the patch computer on **re-joined** members!

So if you "drop out" of PARC for several months your PIN will be deactivated and you will need to notify me that you have rejoined.

Driving - There has been a lot said lately about the use of cell phones while driving and the possibility of the enactment of laws making it illegal while driving.

Lets hope that it does not apply to amateur radio operators BUT it is wise to pull off to the side of the road if you have to make an autopatch call.

Box Numbers - You are reminded that we allow you to have up to 4 **BOX** numbers for your home and friends. These **BOX** numbers cut down your dialing digits by half!

Practice - There certainly are a lot of you out there that have **PIN** numbers but I don't see you using the autopatch!

One of our members comes up periodically and dials his home phone via the **BOX** feature. He hears it ring, then shuts down the patch immediately. That is his practice and when he really needs the patch, I am sure that he will have no problems activating the patch.

Several club members have a card with the digits needed for their home phone and consult it while dialing.

When you first start using the patch you will probably make mistakes so your challenge is to learn from your mistakes.

If you don't use it, you loose it!

If you don't have e-mail, contact ***W9FQN*** at club meetings. No **PIN**s or **BOX**es are given out by mail.

Patch Times - With the new donated ***W3LFR(Gary Albeck)*** 486 computer we probably have more speed than we can handle!

With the increase in speed we are able to look up DATA more rapidly than we did before. This is good.

But, the temptation is to start cutting on the timing loops that the computer is using for various "house keeping" chores in the dialing sequence.

Transmitters - when you turn on a transmitter, it takes a certain amount of time for it to TURN ON and come up to full power so you do not want to send digits exactly at TURN ON. We are presently waiting 0.4 seconds.

Digits - all numbers are sent with a 0.3 second tone length.

#'s - are sent with a 0.7 second length so we are sure things get turned off.

***'s** - are sent with a 0.9 second length so we are sure that it is being heard.

We have played with some of these times and in several cases have made them too short resulting in problems. It is our intention to move more slowly in reducing these times by adjusting them one at a time rather than making "mass" adjustments.

We have to take into consideration that there is a "dead" time from when the local patch tries to access or pick up the telephone line and get a dial tone. Only after we have a dial tone can we dial the telephone number. If we don't wait long enough, then the number being dialed by the computer has several digits at the beginning "chopped" off by the phone company and you will probably get the "telephone lady" coming on and saying something like "we can't complete your number as dialed." Or something like that. We are using 2.59

seconds for this connection to occur.

There are other times too humerous to mention but at least it gives you the feeling for some of the timing problems that need to be addressed.

An example of a timing loop (to kill time) is -

FOR X = 1 to 2.59*TK: NEXT X

In this loop, 2.59 is 2.59 seconds. TK is a constant (counts/sec) obtained when the computer is turned on. The computer gets the time. It then counts to 10,000. Then it looks at the time again and calculates the number of counts per second (TK) which is then used in all timing loops.

Since all loops in the program take this form, the program can be run on any computer and the 2.59 secons will always be very close to 2.59 seconds! All you have to do is write in the number of seconds you want and that is what the time will be regardless of the computer speed.

SSTV *(get the picture?)*

Where can I get more information on SSTV and the programs to decode the SSTV signal. Listed below are some addresses to get you started:
//www.ultranet.com/~sstv/download.html
or go to
http://www.google.com
and search for SSTV.
(If you haven't used google, try it. It's a really great search engine!) -Dave

UHF Antenna *(TV DTV)*

Pete Putman, writing in Tech-Notes #059, describes his home testing of 15 different UHF receiving antennas, looking for best DTV performance. He is located 25 miles from five Philadelphia DTV stations (CH-25 to 67) and 65 miles from New York (with DTV activity on CH-44 & 56). Pete notes as follows:

"The antenna that works flat-out best is a Channel Master model 4221/3201, which is made of four-bay crossed UHF dipoles with a turkey wire screen reflector. It's about 30" by 48" and costs all of $20..... Test results are available.... drop me an email." Pete also uses a Channel Master #7775 preamp. His e-dress is: dtv@projectorexpert.com
(de W6VR's The CGC Communicator)

HF DFing

It now appears as though the SDCo area needs a HF DFing team in addition to those who can DF on 2m and 70 cm.

There was a stuck transmitter just above 14.000 and tracking throughout the USA placed the offending transmitter south of Encinitas.

When found, it was discovered that the ham had left his transmitter ON with a code key "at the ready" ...well, when the sun came up it cause unequal expansion in the torsion mechanism of the key and this caused it to issue a series of dits automatically. When it cooled off, the signal went away!

Contests

Harry Hodges **W6YOO@amsat.org**

Sep 2 All Asian DX Contest, SSB
Sep 2 Bulgarian DX Contest, CW
Sep 3 NA CW Sprint Contest
Sep 9 WAE DX Contest, SSB
Sep 9 ARRL VHF QSO Party
Sep 16 ARRL 10GHz Cumulative Contest
Sep 16 Wash. State Salmon Run
Sep 16 QCWA QSO Party
Sep 23 CQ/RJ WW DX Contest, RTTY
Sep 30 LA & TX QSO Parties
Oct 1 RSGB 21/28 MHz Contest, SSB
Oct 7 VK/ZL/Oceania Contest, Phone
Oct 7 California QSO Party

As the Fall season approaches, we find major contests on every weekend. The really big one is the California QSO Party where everyone tries to work each of the 58 counties in California and California tries to work each of the 50 states and 8 Canadian provinces.

See QST, CQ, NCJ, and Worldradio for rules. 73, Harry

QSO Party

The Louisiana QSO party 2000 will be held on 30 september 2000. For full details and rules, see the official LAQP website:
www.tchams.org/users/contest/laqp/

Fire Frequencies

We are in the season of FIRE. The below listed frequencies were used in the Pechanga Indian Reservation fire:
122.925 was Air to air
151.190 was CDF
151.220 was Air to ground
151.265
151.355 was Comand

You might program these into your scanner and see if they are being used in a fire near you.

Computer Stuff

Site for nature lovers based in the SDCo area -
www.eNature.com
ARRL/ARES be sure to see -
www.qsl.net/sdgarrl
License Plate antenna mount -
www.hamstick.com
Home of the Pacific Crest Trail Repeater Guide and Radio
www.qsl.net/aa6j
and
(Fred, KE6BGI) Hi, here are the antenna urls I mentioned:
http://www.cebik.com/
http://www.contesting.com/FAQ/towertalk

Magazines *(for readers & thinkers)*

QST: *(...and doers)*

AugØØ,p42, RF-Survey Meter
AugØØ,p98, QRP Wattmeter

73:

JulØØ,p10, Universal Loop Antenna
JulØØ,p20, Emergency 2m/70cm ant
JulØØ,p22, Hybrid Vee antenna(s)
JulØØ,p29, Bad Radio Club's??
JulØØ,p34, Multiband Comet UHF ant review
JulØØ,p38, **LED transceiver Part II**
JulØØ,p52, **PSK31** and MixW32 discussion
JulØØ,p56, Mobile HF/VHF antennas
AugØØ,p34, WinAPRS, great article to start
AugØØ,p44, More Laser transceiver info, **III**

CQ:

JunØØ,p40, Giovannini D2T antenna
JunØØ,p62, Web on packet!!!
JunØØ,p73, MFJ cub QRP transceiver
AugØØ,p82, Rptr Coordination
AugØØ,p99, AC RF filter

Join the ARRL through PARC. See ***KB6NMK*** at club meetings or send her an E-M.

PARC NETS (04/00)

All 147.075 10-11pm MCW contacts
All 147.130 2130+ pm Facitious Group

Sun.146.730 8:30am **AREmergency Service**
Sun.146.730 10:00am **Sailor's Net**
Sun.147.075 8:45pm **MARA Net**
Mon.146.730 7:15pm **RACES sub Net**
Mon.146.730 9:00pm **Microwave Net**
Tue.146.730 8:00pm **Traffic Net (SDCTN)**
Tue 146.730 9:00pm **Off Roading Net**
Wed.146.730 9:00pm **Field Day Net**
Thu.146.730 8:00pm **Traffic Net (SDCTN)**
Thu.146.730 9:00pm **Ham Help Net**
(electronics, computers, antennas, license theory, etc.)
Fri.146.730 9:00pm **Hiker's Net**
Sat. 146.730 8:00pm **Traffic Net (SDCTN)**
Sat. 52.680 8:00pm **6m ARES Net**
Sat. 147.130 8:15pm **ARES Staff Net**

POSTMASTER: Send address changes to Scope, P.O.Box 73, Vista, CA 92085-0073 *(also on page 1)*

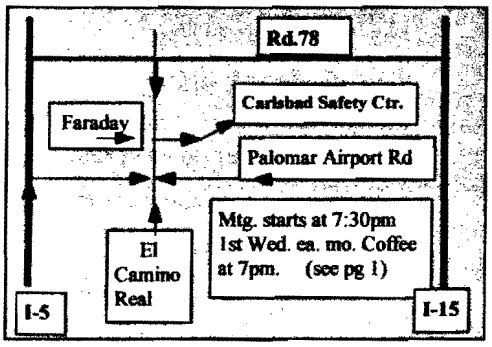
Time Dated Material

Sept. 2000 pg.12 -96- 1,432

We are at the Carlsbad Safety Center!!!!

Perodicals Postage Pd. at Vista CA 92085-9998

Wow! Back at the Carlsbad Safety Center for September !



cover me!

PARC Web Page (KE6WOE)

http://members.home.net/parc/

OPEN Repeaters/CLOSED Patches

Palomar Mt. Repeaters (W6NWG)
PARC Trustee of W6NWG: **AB6QT**

***52.680**- W6NWG, -0.5 MHz
Autopatches(4): **146.730**-, ***147.075+**
***147.130+**, ***447.000-**
PKT: **145.050s** (PALMAR/W6NWG-1)
146.700-(Duplex Pkt) PALBBS/EMG use
145.070/146.7- (W6NWG-3/PALBBS)

ATV "OUTPUT": **1241.25** MHz AM
ATV"IN": **915**wbfm, **919**am,
2441.25wbfm
Intercom: **146.415** PL 79.7 nbfm
Affiliated:
***224.38**- & ***224.94**- KK6KD(HARS)
***447.05**- & ***145.26**- KK6KD(HARS)
***146.175+** N6FQ(FalbrkARS) linked to **448.900** MHz (-) 103.5PL
***224.90**- WD6HFR (220ClubSD);
446.14- WB6FMT(123.0)Vista;

*=107.2 Hz

Pg. NEWS WORTHY

01 Club program; Map; Events; Picnic 9/24
02 VE Exams; Last Mtg.; Goodie Table
03 PARC Info; Thanks; AGOGO; Board Mtg
04 Membership; Taco SK; Roundup; Pres; Hikers; Earthquake; Membership graph
05 Participation Pts; FD; Club station; W1ICP; Junk
06 Net Controls; Barbecue; Nomination; Harbor Freight; Editor
07 For Sale
08 For Sail; Donations; Survey; Surplus; Roundup; Morse Code; Alligator award; Committee Chairmen
09 Tech Report; 449.420=>447.000; FD OO; Callsigns; Work Parties
10 Patch
11 Contests; Computer stuff; Magazines; SSTV; UHF Ant; QSO Party; HF Dfing; Fire frequencies

Web Pages

PARC's Home Page - ***KE6WOE***
http://members.home.net/parc/
Rod's General Home Page - ***AC6V***
//pw2.netcom.com/~ac6v/page1.html
Tom's Hiker's Home Page - ***KF6PAZ***
//www.fanciful.org/san-diego-hiker

146.730 in Use

Please schedule special repeater use at least one month ahead of intended use with W9FQN:
Oct 14 0630-1000 Children's Walk 4Peace
Oct 13-15 Mira Mar Air Show, ARES

PARC 2000 *Calendar*

September 2000 -
06 Wed, Club Mtg.7:30pm,Carlsbad SafetyCtr
09 Sat, PARC VE testing Carlsbad Safety Ctr
10 Sun, work party Rptr Site Palomar Mt.
13 Wed, PARC Board Mtg. W9FQN 7:00pm

(more fine print)

PARC Testing - tests given each 2nd Saturday at 9:30 am in the Carlsbad Safety center in Carlsbad. Contact Rusty ***AA6OM*** at 760-747-5872 or at **DuneDancer@worldnet.att.net**

Escondido Testing - examinations on the LAST Saturday @ 9:00am, Chamber of Commerce, 720 N.Broadway, Escondido, CA 92025. Contact Harry W6YOO 760-743-4212.

Register 5-7 days in advance for tests.